AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A single phase induction motor, comprising:

a stator installed at <u>in</u> an inner circumferential surface of a motor body, the stator on which a plurality of coils are <u>being</u> wound <u>on the stator</u>;

a rotor rotatably installed at <u>in</u> a center portion of the stator and provided with a rotation shaft at a center thereof; and

a magnet unit freely and rotatably installed between the stator and the rotor with an air gap, the magnet unit being separated from the stator by a first air gap and from the rotor by a second air gap, wherein the magnet unit comprises a back yoke and a plurality of magnets attached to an outer circumferential surface of the back yoke, said plurality of magnets substantially surrounding the entire outer circumferential surface of the back yoke.

- 2-9. (Canceled)
- 10. (Currently Amended) The single phase induction motor of claim 1, wherein the magnet unit comprises:
 - a back yoke located between the stator and the rotor;

a plurality of magnets attached to an outer circumferential surface of the back yoke;

a supporter coupled to one end of the back yoke so as to support the back yoke; and

a bearing press-fit into a center of the supporter so as to be rotatably coupled to an outer circumferential surface of the rotation shaft.

- 11. (Original) The single phase induction motor of claim 10, wherein the back yoke is a magnetic substance.
- 12. (Original) The single phase induction motor of claim 10, wherein the back yoke is a non-magnetic substance.
- 13. (Original) The single phase induction motor of claim 10, wherein the supporter is integrally injection-molded at one side of the back yoke.
- 14. (Original) The single phase induction motor of claim 10, wherein the supporter is integrally injection-molded at both sides of the back yoke.
- 15. (Currently Amended) The single phase induction motor of claim 10, wherein a thickness of the back yoke is preferably set as 0.2~0.6mm.

16. (Currently Amended) The single phase induction motor of claim 4 22, wherein the magnet unit comprises:

a molding located between the stator and the rotor;

a magnet mounted in the molding;

a supporter coupled to one end of the molding so as to support the molding; and

a bearing press-fit into a center of the supporter so as to be rotatably coupled to an outer circumferential surface of the rotation shaft.

- 17. (Original) The single phase induction motor of claim 16, wherein the molding is a non-magnetic substance.
- 18. (Original) The single phase induction motor of claim 16, wherein the supporter is integrally injection-molded at one side of the molding.
- 19. (Original) The single phase induction motor of claim 16, wherein the supporter is integrally injection-molded at both sides of the molding.
- 20. (Currently Amended) The single phase induction motor of claim 16, wherein the magnet each of the plurality of magnets has a certain predetermined curvature and is arranged in the molding towards a circumference in a circumferential direction.

- 21. (Currently Amended) The single phase induction motor of claim 16, wherein the magnet is formed as a cylindrical shape thus to be plurality of magnets form a cylindrical shape arranged in the molding.
 - 22. (New) A single phase induction motor, comprising:

a stator installed in an inner circumferential surface of a motor body, a plurality of coils being wound on the stator;

a rotor rotatably installed in a center portion of the stator and provided with a rotation shaft at a center thereof; and

a magnet unit freely and rotatably installed between the stator and the rotor, the magnet unit being separated from the stator by a first air gap and from the rotor by a second air gap, wherein the magnet unit comprises a molding and a plurality of magnets formed inside said molding, said molding completely surrounding each of said plurality of magnets.

23. (New) A single phase induction motor, comprising:

a stator installed in an inner circumferential surface of a motor body, a plurality of coils being wound on the stator;

a rotor rotatably installed in a center portion of the stator and provided with a rotation shaft at a center thereof; and

a magnet unit freely and rotatably installed between the stator and the rotor, the magnet unit being separated from the stator by a first air gap and from the rotor by a second air gap, wherein the magnet unit comprises a ring magnet.

24. (New) The single phase induction motor of claim 23, the magnet unit further comprises:

a supporter coupled to one end of the ring magnet for supporting the ring magnet; and

a bearing press-fit into a center of the supporter so as to be rotatably coupled to an outer circumferential surface of the rotation shaft.

- 25. (New) The single phase induction motor of claim 23, wherein the supporter is a non-magnetic substance.
- 26. (New) The single phase induction motor of claim 23, wherein the supporter is integrally injection-molded at one side of the ring magnet.
- 27. (New) The single phase induction motor of claim 23, wherein the supporter is integrally injection-molded at both sides of the ring magnet.
- 28. (New) The single phase induction motor of claim 23, wherein the supporter is formed of the same material as the ring magnet.
- 29. (New) The single phase induction motor of claim 23, wherein the bearing is a ball bearing type.

P24708.A05

- 30. (New) The single phase induction motor of claim 23, wherein the bearing is an oilless bearing type.
- 31. (New) The single phase induction motor of claim 23, wherein the ring magnet comprises a single magnetic element having a cylindrical shape.